

ABSTRACT OF THE DISCLOSURE

A measurement system having an analyzer unit (2; 102) and at least one replaceable sensor (1; 101). Each sensor has a transponder (13) in which sensor-specific data is stored. The analyzer unit has an antenna (21) for wireless readout of the data stored in the transponder and for wireless transmission of the power required to operate the transponder. The transponder (13) and the antenna of the analyzer unit (2) are further configured to additionally transmit and receive the measurement signal of the sensor (1) wirelessly. The sensor may be accommodated in a connecting unit (32, 52, 62, 72, 112) configured to be secured to a corresponding mating component (41, 56, 66, 76, 116).